

Patent Abstracts of Japan

PUBLICATION NUMBER : 05038098
PUBLICATION DATE : 12-02-93

APPLICATION DATE : 01-08-91
APPLICATION NUMBER : 03193143

APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : ISHII MASAYUKI;

INT.CL. : H02K 13/00

TITLE : CARBON CURRENT COLLECTOR

ABSTRACT : PURPOSE: To obtain an abrasion resistant carbon current collector having low electric resistance which scarcely cause abrasion of counterpart member by filling the pores of a porous metallic member having coupling skelton with carbon and integrating them to produce a composite member for constituting the carbon current collector.

CONSTITUTION: In a method for filling the pores of a porous metallic member having coupling skelton With carbon and integrating them to produce a composite member, mixture powder of carbon and binder is filled while vibrating or the mixture powder is brought into slurry state and slid. It is then subjected to spray impregnation or low pressure impregnation to fill the carbon in the pores of the porous metallic member which is then pressed and dried, as required, to be sintered. In case of laminated structure, a layer of porous metallic material filled with the mixture of carbon powder and binder and a layer of only the carbon powder and the binder are laminated alternately and then it is pressed and dries, as required, to be sintered.

COPYRIGHT: (C) JPO